

WHAT IS CLAIMED IS:

1. Guiding grid of variable geometry, in particular for a turbine housing (2) with central discharge pipe (10) comprising:
  - a wreath of guiding vanes (7) arranged in a housing means in angular distances around a central axis (R) in an axially extending vane space of a predetermined axial distance, each vane being pivotal about an associated pivoting axis (8) to assume different angles in relation to said central axis and, thus, to form a nozzle of variable cross-section between each pair of adjacent vanes;
  - a nozzle ring (6) for supporting said plurality of pivoting vanes (7) for pivoting around their pivoting axis axis (8), said nozzle ring forming a first axial limitation of said vane space;
  - a unison ring (5) displaceable around a central axis relative to said nozzle ring (6), said unison ring being connected to said vanes in order to pivot them when being displaced to adjust their respective angular position in relation to said central axis (8);
- characterized by
  - a disc (29) with a central opening (53) fixed to said housing means and opposite said nozzle ring (6) in an axial distance corresponding to said predetermined axial distance relative to the central axis (R) to form a second axial limitation of said vane space, wherein the central opening (53) or central outlet pipe (10) of the turbine housing (2) is insertible into a sleeve (45) such that the sleeve (45) is inserted into said central opening for fixing the guiding grid in the turbine housing (2) inclusive of the guiding grid in its central outlet (10).

2. Guiding grid as claimed in claim 1, wherein said central opening (53) engages at least one driven element or follower (46), which is provided in the central outlet opening (10 of the turbine housing (45)).
3. Guiding grid as claimed in claim 2, wherein the at least one driven element is a flange which extends radially and engaging the disk (29).
4. Guiding grid as claimed in one of the preceding claims, wherein the disk (29) includes at least one recess (29) in the central opening (53) for engaging the at least one driven member or follower (46).
5. Guiding grid as in claim 4, wherein the at least one follower (46) closes off the surface of the disk (29).
6. Guiding grid according to claim 4 or 5, wherein said disk means comprise at least one recess for receiving and engaging said at least one driver flange means.
7. Guiding grid according to one of the preceding claims, wherein said recess has an axial dimension so as to allow said driver flange means to be aligned with said one surface of said disk means which faces said nozzle ring.
8. A turbocharger with a guide grid a according to one of the preceding claims as well as a turbine housing (2) and a releasably connected bearing housing (4), comprising plug connection means for interconnecting said wall means of said turbine housing means and said guiding grid means, thus defining the angular position in peripheral direction of said guiding grid means relative to said housing means, while said fixing means define the axial position of said guiding grid means.

9. Turbocharger as claimed in claim 8, wherein said plug connection means comprise at least one hole in said means fixed to said housing means for receiving a pin member for defining the angular position in peripheral direction of said guiding grid means relative to said housing means.
10. Turbocharger as claimed in claim 8 or 9, wherein said means fixed to said housing means (29) comprise disk means arranged parallel to said nozzle ring and being interconnected to said nozzle ring.